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NRO REVIEW COMPLETED

9226-73/1
Copy 6 of 12

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16 JAN 1973

MEMORANDUM FOR: Director, CIA Reconnaissance Programs

SUBJECT: Program Progress Report

Forwarded herewith are three copies of the IDEALIST
Program Progress Report for the period 1 October 1972 -

31 December 1972.

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WENDELL L. BEVAN, JR.
Brigadier General, USAF
Director of Special Activities

Attachments -

As stated [redacted] (6380-73)

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CLASSIFIED BY [redacted]
EXEMPT FROM GDS
SCHEMATIC CONTROL NO. [redacted] DATE OF REVIEW:
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25X1

9226-73/1

25X1

Page 2

SAS/O/OSA [redacted] (8 January 1973)

Distribution:

- 1 - D/CRP
- 2 - D/CRP
- 3 - D/CRP
- 4 - DDS&T Reg
- 5 - D/SA
- 6 - SAS/O/OSA
- 7 - D/O/OSA
- 8 - IDEA/O/OSA
- 9 - INTEL/O/OSA
- 10 - D/M/OSA
- 11 - AMS/OSA
- 12 - RB/OSA

Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

TOP SECRET

25X1

TOP SECRET

Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

25X1

6380-73

25X1

Section 1

IDEALIST

OPERATIONAL SUMMARY AND STATUS

(1 October 1972 - 31 December 1972)

I. OPERATIONAL MISSION SUMMARY

Nine IDEALIST/TACKLE operational missions were alerted during this period. Eight were flown, one was cancelled by Project Headquarters for weather. All missions were planned to be flown no closer than 25 nautical miles to the China mainland coast. Following is a summary of missions completed:

1. Mission C342C was flown on 5 October 1972 off the central China coast from the Shantung Peninsula south to Shanghai. Photo interpretability was fair, however, 70 of 85 programmed targets, 19 bonus COMIREX and five bonus non-COMIREX targets were covered for a total of 94 targets covered.

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2. Mission C352C, flown on 6 October 1972, covered targets along the south China coast and the eastern coast of Hainan Island. Photo interpretability was fair and 75 targets were covered of which 45 were bonus.

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3. Mission C362C, flown on 12 October 1972, covered targets along the north China coast with primary target interest in the area of the Shantung Peninsula. Cloud cover was estimated at 1%, resulting in coverage of 71 targets, of which 59 were programmed, and 12 were bonus.

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4. Mission C372C was flown on 20 October 1972

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Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

TOP SECRET

25X1

TOP SECRET

Approved For Release 2002/08/12 : CIA-RDP83-02415A000800030002-7

25X1

6380-73

25X1

Section 1

Page 2

5. Mission C382C, flown on 27 October 1972,

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25X1

6. Mission C392C, flown on 11 November 1972,

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7. Mission C402C, flown on 18 November 1972, covered targets along the southern coast of the Shantung Peninsula and south to Shanghai. A total of 91 targets were covered of which 75 were programmed and 16 were bonus.

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8. Mission C422C, flown on 20 December 1972,

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II. GENERAL

A. RED DOT - Three sorties were flown in support of continuing film tests using various film types and camera configurations.

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C. Lens - Ten sorties were flown to test the second color corrected lens for the "H" configuration. Two sorties were flown as base line tests for the color corrected "B" lens.

25X1

Approved For Release 2002/08/12 : CIA-RDP83-02415A000800030002-7

TOP SECRET

25X1

TOP SECRET

Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

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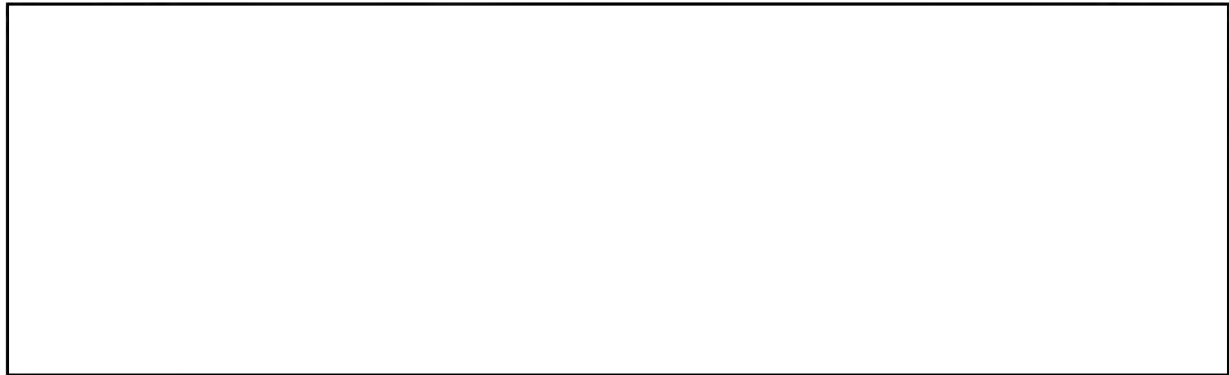
6380-73

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Section 1

Page 3

25X1



G. ☐ SCOPE SAINT VI - The Edwards Detachment conducted an exercise deployment of one U-2R ☐ Two training sorties were accomplished, followed by redeployment to Edwards AFB, California.

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III. ☐ PILOT AND AIRCRAFT STATUS (AS OF 31 DECEMBER 1972)

A. Detachment "G" (Edwards AFB - North Base)

Aircraft 2 U-2R

Pilots ☐

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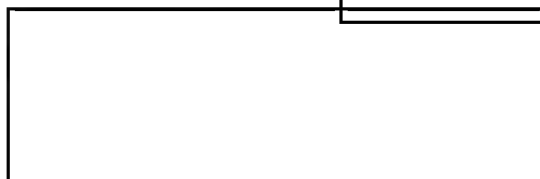
B. Detachment "H"

Aircraft 2 U-2R

Pilots ☐

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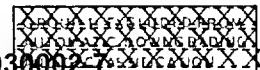
C. ☐



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Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

TOP SECRET



TOP SECRET

Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

25X1

6380-73

Section 2

25X1

IDEALIST

DEVELOPMENT SUMMARY AND PROGRESS

(1 October 1972 - 31 December 1972)

I. AIRFRAME

A. J-75P13B Engine - The installation of improved third stage turbine blades to increase engine life expectancy has continued during this quarter. Additionally, improved first stage turbine blades have been developed and will be installed in all engines as overhauls become due, and new blades become available. Engine Serial Number 612609 was the first to be modified with new first stage blades on 3 November 1972.

B. U-2R Flight Test and Operational Training Summary

1. IDEALIST Program accomplishments in U-2R aircraft since introduction include 10,094.9 hours on 3082 sorties as of 31 December 1972.

2. Flight test and operational data are depicted below:

	<u>1 OCT-31 DEC</u> <u>FLIGHTS</u>	<u>1 OCT-31 DEC</u> <u>TIME</u>
1 - 051	44	114.2
2 - 053	44	121.6
3 - 054	42	184.2
4 - 055	46	153.8
TOTAL	176	573.8

II. PAYLOAD

A. "H" Configuration - The new lens installed in "H" Serial Number 002 produced unsatisfactory results during flight testing and qualification. The configuration was returned to the contractor's

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TOP SECRET

25X1

TOP SECRET

Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

6380-73
Section 2
Page 2

facility for engineering evaluation in early December, and should be available for flight testing again in January 1973.

B. "B" Configuration - The first of two new F/8 lenses for the B-3 camera was ready for installation on 16 December 1972. The system will start flight test toward qualification during January/February 1973. The second lens is scheduled for completion in March 1973. If this schedule holds, the camera will be flight tested during the fourth quarter.

C. Camera - OSA will provide technical and contractual support to OSP and the NRO during the proposed acquisition of a second F3.5 Apochromatic lens, and variable slit modifications to the scan heads of this camera. OSA involvement is expected to continue until the third quarter of FY 1974.

Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

TOP SECRET

TOP SECRET

Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

25X1

6380-73

25X1

Section 2

Page 3

25X1 E. ☐ Vulnerability Studies - This joint OEL, OSI, and OSA project initiated during the first quarter of FY 1973, is continuing. During the second quarter, OSI has reviewed the threat to the U-2R, and simulation studies are planned for the third quarter.

25X1 IV. ☐ SUPPLY

A staff assistance visit was made to Detachment "H" during October 1972. Discussions with personnel and review of supply procedures, and audited records indicated an effective and efficient operation.

25X1 V. ☐ AERO MEDICAL AND LIFE SUPPORT ACTIVITIES

25X1 A. ☐ Medical Activities

25X1 1. ☐ Office of ELINT Briefing - The OSA Medical Staff presented medical briefings to OEL students on high altitude physiology. ☐ C/AMS/OSA, served as the attending flight surgeon during the low pressure chamber indoctrination flights. 25X1



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TOP SECRET

25X1

TOP SECRET

Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

25X1

6380-73

25X1

Section 2

Page 4

B. Life Support Activities

1. Low Flight Ventilation Unit - The redesigned ventilation inlet has now been incorporated into the low flight harness assembly. By doing this, the aircraft vent hose will be compatible with both the low flight vent unit and the S1010 Pilot Protective Assembly (PPA) Full Pressure Suit.

2. Olive-Green Nomex Fabric - The standard olive-green nomex fabric used to fabricate the outer cover of the S1010 PPA is no longer available. A new vendor has been located who can supply a similar nomex material of a slightly harder finish and this will be used on all future S1010 PPA outer covers.

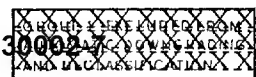
3. Pilot Transfer Van - The Edwards AFB Physiological Support facility recently declared one of their pilot transfer vans excess and Detachment "H" Life Support has added it to their Stock List of Equipment. This will now satisfy the IDEALIST mission requirements, and it will be unnecessary to reclaim the transfer van previously loaned to the Air Force U-2 Program at Davis-Monthan AFB.

4. Automatic Seat Kit - A proposal submitted by the [redacted] for improvement of the automatic seat kit hardware has been approved during this quarter. Both customers agree the effort is of great value and money was appropriated equally from the Air Force U-2 and the IDEALIST Programs. [redacted] for the design and R&D of the automatically deployment feature which will be added to the Standard U-2R Survival Seat Kit.

5. Display - In early October 1972 the Cuban Missile Crisis display was opened at the CIA Headquarters Building. Included in this presentation was the entire Life Support Assembly worn and carried by the Agency U-2 pilots during their early missions over Cuban targets. Although much of the equipment is outdated and antiquated by today's U-2R standards, it does give an accurate historical account of Life Support equipment ten years ago.

Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7

TOP SECRET



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25X1

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Approved For Release 2002/08/12 : CIA-RDP33-02415A000800030002-7